



RE: 3418479 - GIEBEIG CONST. - LOT 46 CW

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: Gioebeig Const. Project Name: Spec Hse Model: 1676

Subdivision: Crosswinds

Lot/Block: 46 Address: TBD, TBD

City: Columbia Cty

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.5

Truss Name

Date

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

T08

T09

T10

This package includes 20 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

T29764332

T29764333

T29764334

T29764335

T29764336

Seal# T29764331

No.

16

18

19

No.	Seal#	Truss Name	Date
1 2 3 4 5 6 7 8 9 10 11 12	T29764317 T29764318 T29764319 T29764320 T29764321 T29764322 T29764324 T29764325 T29764327 T29764327 T29764327	CJ01 CJ03 CJ05 EJ01 EJ02 HJ08 HJ10 T01 T01G T02 T03 T04	2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23 2/7/23
13 14	T29764329 T29764330	T05 T06	2/7/23 2/7/23

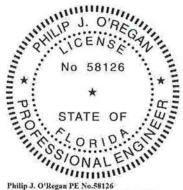


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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023



Job GIEBEIG CONST. - LOT 46 CW Truss Truss Type Qty Ply T29764317 3418479 CJ01 JACK-OPEN 6 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:20 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-Au1CSWjERaqRFTu5uwCwUMuC5Wz4aB1Lq_v8mjznpwL 1-0-0 Scale = 1:8.2 0-4-11 6.00 12 0-10-12 2 0-4-12 4 2x4 = Plate Offsets (X,Y)-[2:0-1-6,0-1-0] LOADING (psf) SPACING-2-0-0 DEFL l/defl L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC Vert(LL) 0.00 240 0.14 >999 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.03 0.00 Vert(CT) >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 6 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=39(LC 12)

Max Uplift 3=-6(LC 1), 2=-66(LC 12), 4=-19(LC 1) Max Grav 3=7(LC 16), 2=179(LC 1), 4=18(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 66 lb uplift at joint 2 and 19 lb uplift at joint 4.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Qty GIEBEIG CONST. - LOT 46 CW Job Truss T29764318 **CJ03** JACK-OPEN 6 3418479 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:21 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-e5bafsksCuylsdTHSej90ZRMqvIBJdHV3dfhIAznpwK 3-0-0 1-6-0 Scale = 1:13.3 0-4-11 6.00 12 0-4-12 9 3x4 = 3-0-0 PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI DEFL in (loc) I/defl L/d 244/190 Vert(LL) >999 240 MT20 TCLL 20.0 Plate Grip DOL 1.25 TC 0.14 0.01 4-7 BC -0.01 >999 180 TCDL 7.0 Lumber DOL 1.25 0.10 Vert(CT) 4-7 n/a BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a Weight: 12 lb FT = 20% Code FBC2020/TPI2014 BCDL 10.0 Matrix-MP BRACING-LUMBER-Structural wood sheathing directly applied or 3-0-0 oc purlins. TOP CHORD

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

3=Mechanical, 2=0-3-8, 4=Mechanical (size)

Max Horz 2=73(LC 12)

Max Uplift 3=-36(LC 12), 2=-57(LC 12), 4=-16(LC 9) Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 57 lb uplift at joint 2 and 16 lb uplift at joint 4.

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February 7,2023

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Job Truss Truss Type Qty Ply GIEBEIG CONST. - LOT 46 CW T29764319 3418479 CJ05 JACK-OPEN 6 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:22 2023 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-6H9ysClUzC49Un1T0LEOZnzVJJcF24XeHHOFqcznpwJ Scale = 1:18.2 6.00 12 0-4-12 3x4 = 5-0-0 LOADING (psf) SPACING-2-0-0 CSI DEFL. **Vdefi** L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) 0.03 4-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.24 Vert(CT) -0.05>999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 18 lb FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=107(LC 12)

Max Uplift 3=-67(LC 12), 2=-64(LC 12)

Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

REACTIONS.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 3 and 64 lb uplift at joint 2.

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Structural wood sheathing directly applied or 5-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023



GIEBEIG CONST. - LOT 46 CW Qty Ply Truss Truss Type Job T29764320 JACK-PARTIAL 16 3418479 EJ01 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:23 2023 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-aTjK4Xm6jVC06xcgZ2ld6_WZSjrPnXnoWx8oN2znpwl Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 7-0-0 Scale = 1:23.3 10 6.00 12 0-4-12 11 3x4 = Plate Offsets (X,Y)-[2:0-1-3,0-1-8] PLATES GRIP DEFL. I/defl SPACING-CSI. (loc) LOADING (psf) 2-0-0 244/190 >273 240 MT20 0.70 Vert(LL) 0.31 4-7 TC TCLL 20.0 Plate Grip DOL 1.25 180 0.69 Vert(CT) 0.26 >321 TCDL 7.0 Lumber DOL 1.25 BC 0.00 Horz(CT) -0.01 WB BCLL 0.0 Rep Stress Incr YES FT = 20%Weight: 25 lb Code FBC2020/TPI2014 Matrix-MS BCDL 10.0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=137(LC 12)

Max Uplift 3=-86(LC 12), 2=-76(LC 12), 4=-40(LC 9) Max Grav 3=164(LC 1), 2=346(LC 1), 4=126(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 76 lb uplift at joint 2 and 40 lb uplift at joint 4.

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Philip J. O'Regau PE No.58126 MITek Us.A. PL Cert 6634 16035 Swingley Ridge Rd. Christerfield, 34O 63017 Date:

February 7,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type GIEBEIG CONST. - LOT 46 CW Job Truss Qtv Ply T29764321 3418479 EJ02 MONOPITCH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:24 2023 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-2gGjHtmlUpKtk4Bs7mGseC2ob7DIW_1xlbtMvVznpwH 2x4 || 3 6.00 12 0-4-12 3x4 = 2x4 || 6-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defi L/d PLATES GRIP (loc) 20.0 Plate Grip DOL 1.25 TC 0.49 Vert(LL) >398 244/190 TCLL 0.19 4-7 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.52 Vert(CT) 0.16 >468 180 0.0 Rep Stress Incr WB 0.00 BCLL YES -0.01 n/a Horz(CT) n/a BCDL Code FBC2020/TPI2014 Matrix-MP Weight: 27 lb FT = 20% 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 **BOT CHORD** except end verticals. 2x4 SP No.3 **BOT CHORD** WEBS Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 4=0-3-8, 2=0-3-8

Max Horz 2=128(LC 12)

Max Uplift 4=-86(LC 9), 2=-70(LC 12)

Max Grav 4=218(LC 1), 2=318(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

REACTIONS.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-1-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 4 and 70 lb uplift at joint 2.

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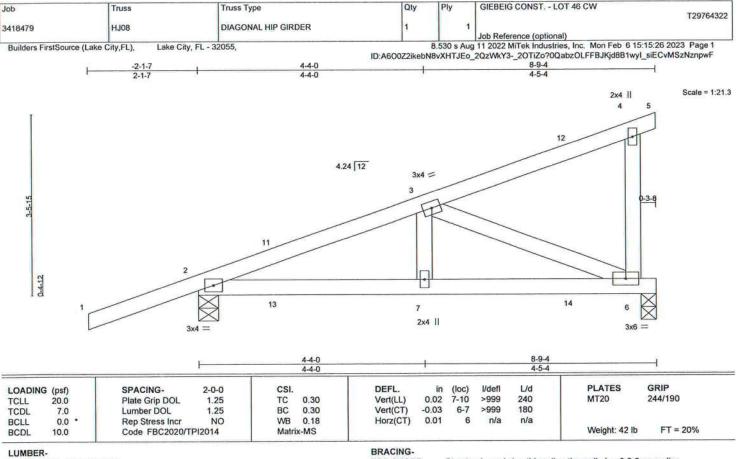
Philip J. O'Regan PE No.38126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 6=0-3-8

Max Horz 2=140(LC 4)

Max Uplift 2=-269(LC 4), 6=-224(LC 4) Max Grav 2=458(LC 1), 6=434(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-538/228

BOT CHORD 2-7=-278/478, 6-7=-278/478

WEBS 3-6=-486/285

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 224 lb uplift at joint 6.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 73 lb up at 1-6-1, 60 lb down and 73 lb up at 1-6-1, 22 lb down and 39 lb up at 4-4-0, 22 lb down and 39 lb up at 4-4-0, and 42 lb down and 42 lb down and 78 lb up at 7-1-15, and 42 lb down and 78 lb up at 7-1-15 on top chord, and 40 lb down and 44 lb up at 1-6-1, 40 lb down and 44 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, and 62 lb down at 7-1-15, and 62 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 6-8=-20 Concentrated Loads (lb)

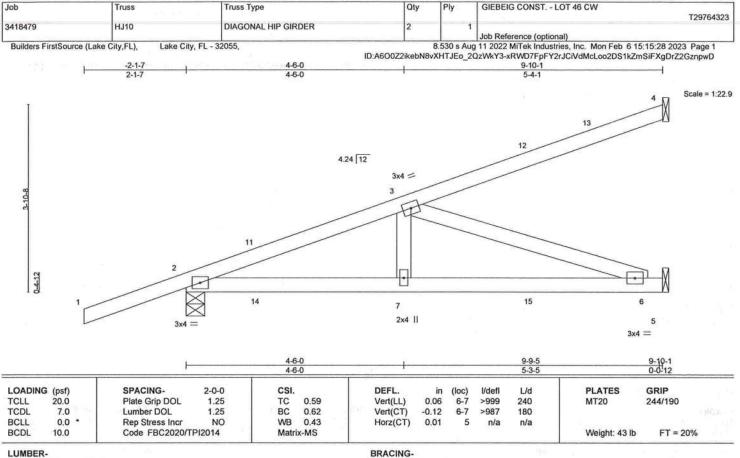
Vert: 7=-5(F=-3, B=-3) 12=-73(F=-37, B=-37) 14=-58(F=-29, B=-29)

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA PL. Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=148(LC 4)

Max Uplift 4=-78(LC 4), 2=-301(LC 4), 5=-144(LC 4) Max Grav 4=150(LC 1), 2=527(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-787/340

BOT CHORD 2-7=-394/716, 6-7=-394/716 WERS 3-7=-60/279, 3-6=-755/415

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 4, 301 lb uplift at joint 2 and 144 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 73 lb up at 1-6-1, 60 lb down and 73 lb up at 1-6-1, 22 lb down and 39 lb up at 4-4-0, 22 lb down and 39 lb up at 4-4-0, and 43 lb down and 78 lb up at 7-1-15, and 43 lb down and 78 lb up at 7-1-15 on top chord, and 40 lb down and 44 lb up at 1-6-1, 40 lb down and 44 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 64 lb down at 7-1-15, and 64 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-5(F=-3, B=-3) 12=-73(F=-37, B=-37) 15=-58(F=-29, B=-29)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16035 Swingley Ridge Rd. Chesterfield, MO 63017

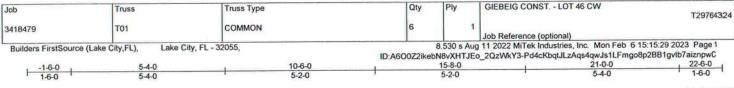
February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTTeks connectors. This design is based only upon parameters and normal value of the connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-3-0 oc bracing.



Scale = 1:38.5

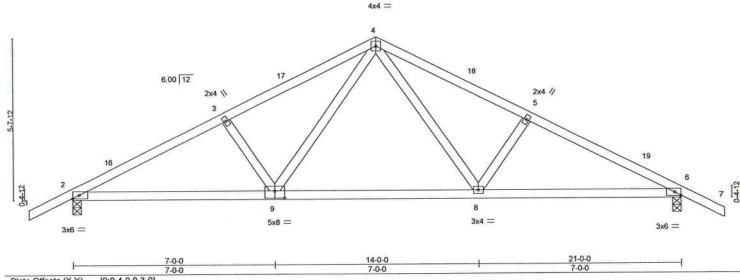


Plate Offsets (X,Y) [9	9:0-4-0,0-3-0]										
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 NO	CSI. TC BC WB	0.39 1.00 0.27 x-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.19 -0.37 0.05	(loc) 8-9 8-9 6	l/defl >999 >676 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 99 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WEBS

2x4 SP No.3

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=-89(LC 13)

Max Uplift 2=-250(LC 12), 6=-250(LC 13) Max Grav 2=1068(LC 1), 6=1068(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1825/509, 3-4=-1683/512, 4-5=-1683/512, 5-6=-1825/509 TOP CHORD

2-9=-374/1579, 8-9=-190/1063, 6-8=-382/1579 **BOT CHORD**

4-8=-197/713, 5-8=-255/167, 4-9=-197/713, 3-9=-255/167 WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 2 and 250 lb uplift at

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 9-10=-20, 8-9=-80(F=-60), 8-13=-20

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MITek Inc. DBA MITek USA 1L Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 65017 Date:

February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for on individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

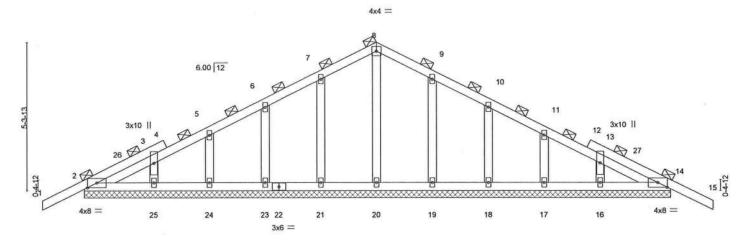


Structural wood sheathing directly applied or 4-1-14 oc purlins.

Rigid ceiling directly applied or 9-4-14 oc bracing.

Job	Truss	Truss Type	Qty	Ply	GIEBEIG CONST LOT 46 CW	
		727 16	376	11895		T29764325
3418479	T01G	COMMON SUPPORTED GAB	1	1		
					Job Reference (optional)	
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		8.530 s Aug	g 11 2022 MiTek Industries, Inc. Mon Feb 6	15:15:31 2023 Page 1
			ID:A600Z2ikebl	N8vXHTJE ₀	_2QzWkY3-L0BMIGs8rzDu39DC1kvVQgr4N;	gRf9?zMB4DfbznpwA
-1-6-	0	10-6-0	1		21-0-0	22-6-0
1-6-0	0	10-6-0			10-6-0	1-6-0

Scale = 1:39.7



		H					21-0-0 21-0-0						
Plate Offs	ets (X,Y)-	[2:0-4-0,0-2-1], [14:0-4-0,	0-2-1]			21-0-0						
LOADING	(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
CDL	7.0		Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0	•	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a	V01-04000 000000 000000	
BCDL	10.0		Code FBC2020/TI	PI2014	Matri	x-S	VIII - 10 HY - 10					Weight: 114 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

THERS 2x4 SP No.3

BRACING-

TOP CHORD 2

BOT CHORD Ri

2-0-0 oc purlins (6-0-0 max.). Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.

(lb) - Max Horz 2=-84(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

Unbalanced roof live loads have been considered for this design.

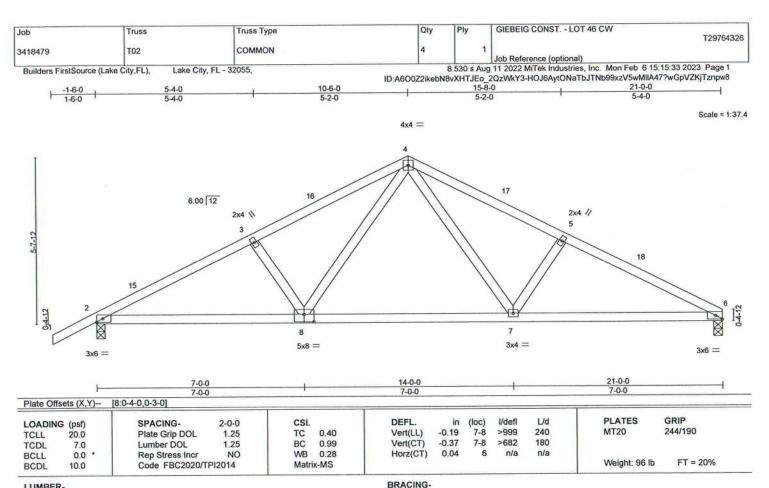
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 22-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 WEBS

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=100(LC 16)

Max Uplift 6=-217(LC 13), 2=-251(LC 12) Max Grav 6=984(LC 1), 2=1071(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1831/517, 3-4=-1688/520, 4-5=-1700/530, 5-6=-1844/527 2-8=-413/1584, 7-8=-223/1069, 6-7=-415/1599 TOP CHORD

BOT CHORD

WEBS 4-7=-205/729, 5-7=-264/171, 4-8=-196/712, 3-8=-255/167

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 21-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=217, 2=251
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20

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Philip J. O'Regan PE No.38126 MITek Iuc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Christerfield, MO 63017

February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

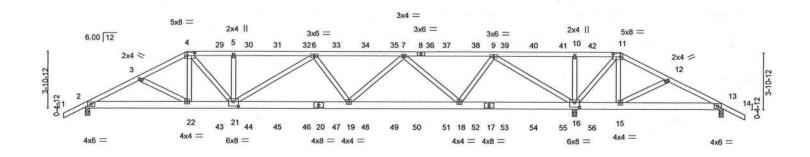


Structural wood sheathing directly applied or 4-1-11 oc purlins.

Rigid ceiling directly applied or 9-0-9 oc bracing.

Job	Truss		Truss Type		Qty	Ply	GIEBEIG CO	ONST LOT 46	CW		T29764327
3418479	T03		HIP GIRDER		1	-					100.00
							Job Reference	ce (optional)			
Builders FirstSource	(Lake City,FL),	Lake City, FL	32055,			8.530 s Au	ug 11 2022 MiTe	ek Industries, Inc	. Mon Feb 6	15:15:40 20	23 Page 1
					ID:A6O0Z2ike	bN8vXHT.	JEo_2QzWkY3-	alEmeLznjkLce ¹	YQx37ZclajTR	ag G?JIQ5II	CTZznpw1
₁ -1-6-0 ₁ 3-9-1	11 , 7-0-0	10-1-12	15-8-6	21-10-0	27-11-10	1	33-6-4	36-8-0	39-10-5	43-8-0	45-2-Q
1-6-0 3-9-	11 3-2-5	3-1-12	5-6-10	6-1-10	6-1-10	1	5-6-10	3-1-12	3-2-5	3-9-11	1.6.0

Scale = 1:76.0



ŀ		7-0-0 10-1-12 7-0-0 3-1-12		0-11 0-15	25-7-6 7-6-11		3-6-4 10-15	36-8-0		
Plate Offse		[4:0-6-0,0-2-8], [11:0-6-0,					10-15	3-1-12	7-0-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75 Vert(LL)	0.18 19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53 Vert(CT)	-0.29 19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94 Horz(CT)	0.05 16	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matrix-	-MS			180000	Weight: 523 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2

2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-7-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,13-15.

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 13=0-3-8

Max Horz 2=-63(LC 9)

Max Uplift 2=-900(LC 8), 16=-2444(LC 4), 13=-943(LC 19) Max Grav 2=2120(LC 19), 16=5397(LC 1), 13=451(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-4156/1843, 3-4=-3969/1792, 4-5=-4424/2036, 5-6=-4424/2036, 6-7=-4420/2011,

7-9=-1746/814, 9-10=-1637/3712, 10-11=-1637/3712, 11-12=-1054/2415,

12-13=-1037/2323

BOT CHORD 2-22=-1642/3683, 21-22=-1554/3538, 19-21=-2114/4729, 18-19=-1554/3461,

16-18=-193/427, 15-16=-2141/996, 13-15=-2049/941

WEBS 4-22=-210/522, 4-21=-656/1372, 5-21=-493/254, 6-21=-412/220, 6-19=-562/308,

7-19=-588/1317, 7-18=-2351/1090, 9-18=-1038/2374, 9-16=-4864/2217, 10-16=-557/284,

11-16=-2402/1097, 11-15=-224/480, 12-15=-278/150

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) Provide adequate drainage to prevent water ponding.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=900, 16=2444, 13=943.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023

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ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	GIEBEIG CONST LOT 46 CW T29764327
3418479	Т03	HIP GIRDER	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:40 2023 Page 2 ID:A6OOZ2ikebN8vXHTJEo_2QzWkY3-alEmeLznjkLceYQx37ZclajTRag_G?JIQ5ICTZznpw1

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 91 lb up at 7-0-0, 110 lb down and 91 lb up at 11-0-12, 110 lb down and 91 lb up at 11-0-12, 110 lb down and 91 lb up at 15-0-12, 110 lb down and 91 lb up at 15-0-12, 110 lb down and 91 lb up at 17-0-12, 110 lb down and 91 lb up at 12-0-12, 110 lb down and 91 lb up at 22-7-4, 110 lb down and 91 lb up at 24-7-4, 110 lb down and 91 lb up at 24-7-4, 110 lb down and 91 lb up at 23-7-4, 110 lb down and 91 lb up at 23-7-4, and 110 lb down and 91 lb up at 23-7-4, and 110 lb down and 91 lb up at 23-7-4, and 110 lb down and 91 lb up at 36-8-0 on top chord, and 334 lb down and 237 lb up at 7-0-0, 86 lb down and 60 lb up at 9-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 15-0-12, 86 lb down and 60 lb up at 13-0-12, 86 lb down and 60 lb up at 22-7-4, 86 lb down and 60 lb up at 23-7-4, and 86 lb down and 60 lb up at 23-7-4, and 86 lb down and 60 lb up at 23-7-4, and 86 lb down and 60 lb up at 30-7-4, 86 lb down and 60 lb up at 33-7-4, and 86 lb down and 60 lb up at 36-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-11=-54, 11-14=-54, 23-26=-20

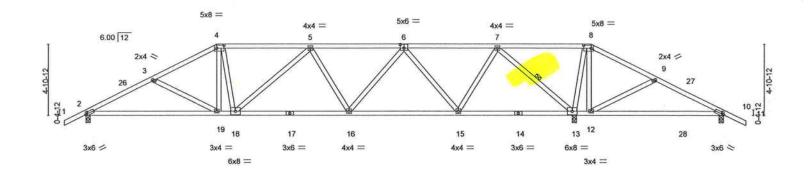
Concentrated Loads (lb)

Vert: 4=-110(B) 11=-183(B) 22=-334(B) 15=-334(B) 29=-110(B) 30=-110(B) 31=-110(B) 32=-110(B) 33=-110(B) 34=-110(B) 35=-110(B) 35=-110(B) 36=-110(B) 36=-11



Job		Truss	Truss Type		Qty	Ply	GIEBEIG CONST	LOT 46 CW		T29764328
3418479		T04	HIP		1	1	Job Reference (or	ntionall		120704020
Builders First	Source (Lake C	ity,FL), Lake City,	FL - 32055,				g 11 2022 MiTek Ind	lustries, Inc. Mon Fe 1FLbKurZJBYb4N?c		
r-1-6-0	4-8-3	9-0-0	15-5-0	21-10-0	28-3-0		34-8-0	38-11-13	43-8-0	45-2-Q
1-6-0	4-8-3	4-3-13	6-5-0	6-5-0	6-5-0		6-5-0	4-3-13	4-8-3	1-6-0

Scale = 1:76.0



1	H		1-12 -12	18-1-1 7-11-5		25-6-15 7-5-15		33-6-4 7-11-5	34-8-0 1-1-12	43-8-0 9-0-0		
Plate Offse	ets (X,Y)-	[2:0-1-5,0-1-8], [4:0-6-0	0-2-8], [6:0-3-0	0,0-3-0], [8:0-6	-0,0-2-8], [10:	0-1-5,0-1-8]						
LOADING		SPACING-	2-0-0	CSI.	5-20 x 20 x 20 x 20 x	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.25 12-25	>496	240	MT20	244/190	
TCDL BCLL	7.0 0.0 •	Lumber DOL Rep Stress Incr	1.25 YES	BC WB	0.77 0.65	Vert(CT) Horz(CT)	0.20 12-25 0.07 13		180 n/a	724 ST 107 SE STE	12212	
BCDL	10.0	Code FBC2020/	TPI2014	Matrix	x-MS					Weight: 231 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD **BOT CHORD**

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 WEBS

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=78(LC 12)

Max Uplift 2=-295(LC 12), 13=-587(LC 8), 10=-353(LC 23) Max Grav 2=1155(LC 23), 13=2362(LC 1), 10=87(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-1961/504, 3-4=-1698/425, 4-5=-1532/419, 5-6=-1579/416, 6-7=-698/217, 7-8=-275/1266, 8-9=-250/1177, 9-10=-231/1024 **BOT CHORD**

2-19=-455/1714, 18-19=-312/1476, 16-18=-409/1707, 15-16=-315/1273, 12-13=-1000/294,

10-12=-884/223 **WEBS** 3-19=-277/161, 4-19=-28/326, 4-18=-102/279, 5-18=-319/168, 5-16=-263/167,

6-16=-126/496, 6-15=-923/274, 7-15=-190/1000, 7-13=-1883/520, 8-13=-1078/827,

8-12=-709/351, 9-12=-342/269

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 9-0-0, Exterior(2R) 9-0-0 to 15-5-0, Interior(1) 15-5-0 to 34-8-0, Exterior(2R) 34-8-0 to 40-10-2, Interior(1) 40-10-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=295, 13=587, 10=353.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regen PE No. 8126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly design. Properly design parameters and properly desig



Structural wood sheathing directly applied or 4-0-12 oc purlins.

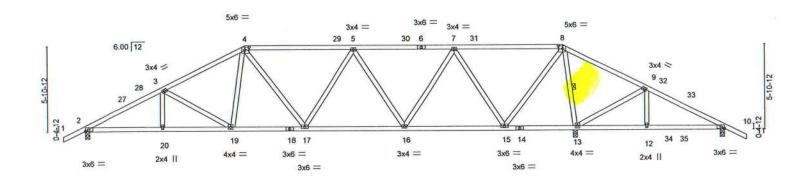
7-13

Rigid ceiling directly applied or 5-4-8 oc bracing.

1 Row at midpt

Job	Tru	ss	Truss Type		Qty	Ply	GIEBEIG CONST LOT 46 CW		T29764329
3418479	TOS	5	HIP		1	1	Job Reference (optional)		
Builders FirstS	ource (Lake City,F	FL), Lake City, FL	32055,	ID:/		8.530 s Aug	11 2022 MiTek Industries, Inc. Mon Eo 2QzWkY3-TWUHUj0Hnys179jilz		
-1-6-0	5-3-13	11-0-0	18-5-3	25-2-13	-	32-8	-0 38-4-3	43-8-0	A5-2-0
F1-6-0	5-3-13	5-8-3	7-5-3	6-9-11		7-5-	3 5-8-3	5-3-13	1-6-0

Scale = 1:76.0



i	5-8		10-1-12	15-0-5	-	21-10-0		7-11	-	33-6-		37-11-13	43-1	
1	5-8	3-3	4-5-9	4-10-9	1	6-9-11	6-9	1-11		4-10-9	9 '	4-5-9	5-8	-3
Plate Offse	ets (X,Y)-	[4:0-3-8,0-2	-4], [8:0-3-8,0)-2-4]										
LOADING	(psf)	SPA	CING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLA	TES	GRIP
TCLL	20.0	Plate	Grip DOL	1.25	TC	0.62	Vert(LL)	-0.10	17	>999	240	MT2	0	244/190
TCDL	7.0	Lum	ber DOL	1.25	BC	0.54	Vert(CT)	-0.21	16-17	>999	180			
BCLL	0.0 *		Stress Incr e FBC2020/T	YES PI2014	WB Matrix	0.98 k-MS	Horz(CT)	0.06	13	n/a	n/a	Weig	ht: 235 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD

2x4 SP No.3 WEBS

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=-93(LC 13)

Max Uplift 2=-302(LC 12), 13=-505(LC 8), 10=-250(LC 23) Max Grav 2=1189(LC 23), 13=2228(LC 1), 10=58(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2057/499, 3-4=-1673/436, 4-5=-1446/395, 5-7=-1162/316, 8-9=-233/1097, TOP CHORD

9-10=-172/765

2-20=-463/1789, 19-20=-463/1789, 17-19=-298/1386, 16-17=-324/1425, 15-16=-188/811. **BOT CHORD**

13-15=-627/277, 12-13=-664/181, 10-12=-664/181

3-19=-411/178, 4-19=-64/334, 5-16=-519/216, 7-16=-166/688, 7-15=-1160/338, WEBS

8-15=-304/1361, 8-13=-1918/436, 9-13=-485/494, 9-12=-268/223

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 11-0-0, Exterior(2R) 11-0-0 to 17-2-2, Interior(1) 17-2-2 to 32-8-0, Exterior(2R) 32-8-0 to 38-10-2, Interior(1) 38-10-2 to 45-2-0 zone; porch right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=302, 13=505, 10=250.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Iuc. DBA MITek USA FL Cert 6634 16925 Swingley Ridge Rd. Chesterfield, MO 63917 Date:

February 7,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 3-7-11 oc purlins.

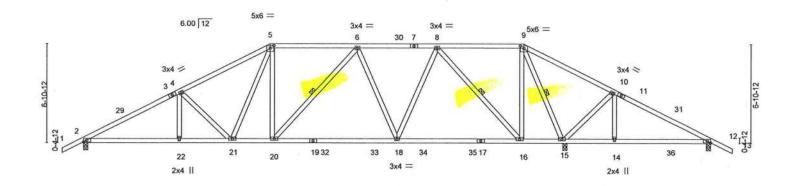
8-13

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

Job	Truss	Tru	uss Type		Qty	Ply	GIEBEIG CONST LOT 46 CW	1	
									T29764330
3418479	T06	HIF	P		1	1			
							Job Reference (optional)		
Builders FirstSource	e (Lake City,FL),	Lake City, FL - 3205	5,			8.530 s Aug	g 11 2022 MiTek Industries, Inc. M	on Feb 6 15:15:46	2023 Page 1
				ID:A60	0Z2ikebN	8vXHTJEo	2QzWkY3-Pub1vP1YJZ6IMTt5QC	g0XrzX6 dhgosAp(OCWgDznpvx
c1-6-0 ₁	6-8-3	13-0-0	19-0-14	24-7-2		30-8-0	36-11-13	43-8-0	45-2-0
1-6-0	6-8-3	6-3-13	6-0-14	5.6.5		6-0-14	6.3.13	6.8.3	160

Scale = 1:77.3



	-	6-8-3 10-1-12		21-10-0		30-8-0	-	33-6-4	36-11-13	43-8-		
DI-1- 0#	1- (V V)	6-8-3 3-5-9	2-10-4	8-10-0		8-10-0		2-10-4	3-5-9	6-8-3	'	
Plate Offse	is (X,Y)-	[5:0-3-0,0-2-0], [9:0-3-0,0)-Z-U]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.21 18-20	>999	240		MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.37 18-20	>999	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.07 15	n/a	n/a	- 1			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS						Weight: 248 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 3-7-6 oc purlins. Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt 6-20, 8-16, 9-15

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 12=0-3-8

Max Horz 2=108(LC 12)

Max Uplift 2=-305(LC 12), 15=-414(LC 8), 12=-118(LC 23) Max Grav 2=1308(LC 25), 15=2276(LC 2), 12=191(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-4=-2253/494, 4-5=-1864/460, 5-6=-1469/394, 6-8=-1261/283, 9-10=-130/890, 10-12=-128/544

BOT CHORD 2-22=-460/1967, 21-22=-460/1967, 20-21=-257/1464, 18-20=-253/1402, 16-18=-171/955, 14-15=-459/147, 12-14=-459/147

4-21=-507/204, 5-21=-143/374, 5-20=-37/304, 6-18=-424/204, 8-18=-144/797,

8-16=-1347/311, 9-16=-184/1271, 9-15=-2036/336, 10-15=-550/495, 10-14=-289/263

NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 13-0-0, Exterior(2R) 13-0-0 to 19-0-14, Interior(1) 19-0-14 to 30-8-0, Exterior(2R) 30-8-0 to 36-11-13, Interior(1) 36-11-13 to 45-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 15=414, 12=118.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J, O'Regan PE No. S8126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd, Chesterfield, MO 63017

February 7,2023

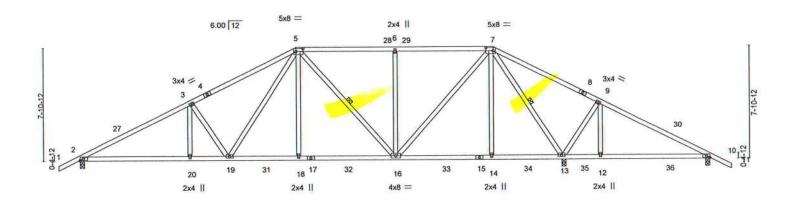
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GIEBEIG CONST. - LOT 46 CW Qty Job Truss Truss Type T29764331 3418479 TO7 HIP Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:48 2023 Page 1
ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-LHjnK43orBMTcm1TXoiUcG2rqoL_8evTGKhdk6znpvv Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 36-0-14 7-4-14 43-8-0 15-0-0 6-10-0 6-10-0

Scale = 1:77.3



	ř.	7-7-2	0-1-12	15-0-0	- Î	21-10-0		8-8-0	-	33-6		36-0-14	43-8-0	
		7-7-2	2-6-10	4-10-4	- 1	6-10-0	6	-10-0	- 1	4-10	-4	2-6-10	7-7-2	
Plate Offse	ets (X,Y)-	[5:0-6-0,0-2-8], [7:0-6	-0,0-2-8]											
LOADING	(psf)	SPACING-	2-0	-0	CSI.		DEFL.	in ((loc)	I/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DO	L 1.	25	TC	0.72	Vert(LL)	0.16 12	2-26	>751	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.	25	BC	0.77	Vert(CT)	-0.25 20	0-23	>999	180			
BCLL	0.0 *	Rep Stress Inc	er YE	S	WB	0.84	Horz(CT)	0.07	13	n/a	n/a			
BCDL	10.0	Code FBC202	O/TPI201	4	Matri	x-MS							Weight: 252 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 WEBS

(size) 2=0-3-8, 13=0-3-8, 10=0-3-8

Max Horz 2=-123(LC 13)

Max Uplift 2=-306(LC 12), 13=-353(LC 13), 10=-108(LC 13) Max Grav 2=1362(LC 2), 13=2192(LC 2), 10=282(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-2328/491, 3-5=-2013/496, 5-6=-1215/324, 6-7=-1215/324, 7-9=-78/675, 9-10=-104/392

2-20=-464/2029, 19-20=-464/2029, 18-19=-222/1405, 16-18=-222/1410, 14-16=-26/490, **BOT CHORD** 13-14=-27/485, 12-13=-320/128, 10-12=-320/128

3-20=0/255, 3-19=-544/236, 5-19=-204/610, 5-18=0/345, 5-16=-340/126, 6-16=-420/205, WEBS 7-16=-252/1112, 7-14=0/338, 7-13=-1937/302, 9-13=-587/535, 9-12=-334/276

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 15-0-0, Exterior(2R) 15-0-0 to 21-2-2, Interior(1) 21-2-2 to 28-8-0, Exterior(2R) 28-8-0 to 34-10-2, Interior(1) 34-10-2 to 45-2-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 13=353, 10=108.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chraterfield, MO 63017

February 7,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Structural wood sheathing directly applied or 2-2-0 oc purlins.

5-16, 7-13

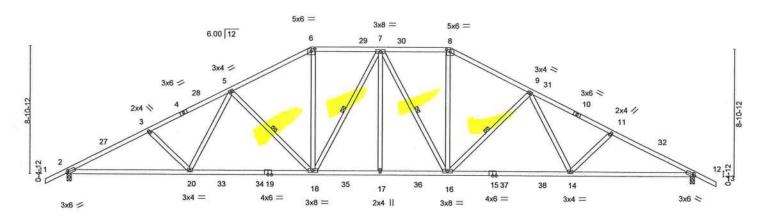
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

Job Truss Truss Type Qty Ply GIEBEIG CONST. - LOT 46 CW T29764332 3418479 T08 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:51 2023 Page 1 ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-lsPwy65g76k2TEI2CxFBEugSW?JQL7KvylwHLQznpvs 21-10-0 26-8-0 37-10-13 43-8-0

4-10-0

Scale = 1:77.3



1	8-6-13	17-0-0	21-10-0			35-1	-3	43-8-0		
Plate Offsets (X,Y)-	8-6-13 [2:0-1-5,0-1-8], [6:0-3-0,0	8-5-3 0-2-01, [8:0-3-0.0-	2-01. [12:0-1-5.0-1-8]	4-10-	0 '	8-5-	3	8-6-13		_
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES	CSI. TC 0.38 BC 0.98 WB 0.35 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.34 18-20 -0.59 18-20 0.17 12	l/defl >999 >892 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 260 lb	GRIP 244/190 FT = 20%	T I

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.1 *Except*

15-19: 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

TIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-138(LC 13)

Max Uplift 2=-375(LC 12), 12=-375(LC 13) Max Grav 2=1869(LC 2), 12=1869(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3464/660, 3-5=-3291/626, 5-6=-2553/542, 6-7=-2241/519, 7-8=-2241/519,

8-9=-2553/542, 9-11=-3291/626, 11-12=-3464/660

BOT CHORD 2-20=-645/3054, 18-20=-487/2655, 17-18=-289/2340, 16-17=-289/2340, 14-16=-392/2655,

12-14=-507/3054

WEBS 3-20=-275/175, 5-20=-78/552, 5-18=-611/252, 6-18=-141/908, 7-18=-347/132, 7-16=-347/131, 8-16=-141/908, 9-16=-611/252, 9-14=-78/552, 11-14=-275/175

7-10--5477151, 0-10--141/900, 9-10--011/252, 9-14--70/552, 11-14--2/5/1/5

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 17-0-0, Exterior(2R) 17-0-0 to 23-2-2, Interior(1) 23-2-2 to 26-8-0, Exterior(2R) 26-8-0 to 32-10-2, Interior(1) 32-10-2 to 45-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=375, 12=375.

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Structural wood sheathing directly applied or 2-11-0 oc purlins.

5-18, 7-18, 7-16, 9-16

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023

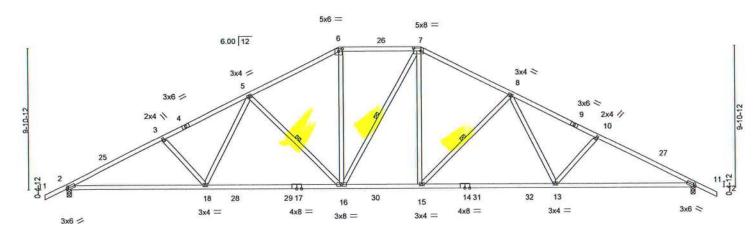
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _____ANTIFIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty GIEBEIG CONST. - LOT 46 CW Truss Type Truss Job T29764333 T09 Hip 3418479 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Feb 6 15:15:52 2023 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:A6O0Z2ikebN8vXHTJEo_2QzWkY3-E2zl9S6JuPsv5OKEmenQn6DZxPfn4bB3Byfqtlznpvr 45-2-0 1-6-0 24-8-0 30-10-6 36-10-4 6-9-12

Scale = 1:77.3



	1	9-8-5	1	19-0-0	1	24-8-0			-11-11		43-0-0	
		9-8-5		9-3-11		5-8-0		9	-3-11		9-8-5	
Plate Offse	ets (X,Y)-	[2:0-1-5,0-1-8], [6:0-3-0,0)-2-0], [7:0-6-0,0)-2-8], [11:0-	1-5,0-1-8]							
LOADING TCLL TCDL	(psf) 20.0 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.59 0.97	DEFL. Vert(LL) Vert(CT)	-0.42 -0.71	(loc) 13-15 13-15	l/defl >999 >741	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	10.0	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matrix	0.31 k-MS	Horz(CT)	0.16	11	n/a	n/a	Weight: 245 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.1 *Except* **BOT CHORD**

14-17: 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=-153(LC 13)

Max Uplift 2=-372(LC 12), 11=-372(LC 13) Max Grav 2=1868(LC 2), 11=1871(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3414/639, 3-5=-3226/614, 5-6=-2376/524, 6-7=-2076/507, 7-8=-2381/524,

8-10=-3232/614, 10-11=-3420/640

2-18=-631/3004, 16-18=-458/2548, 15-16=-216/2080, 13-15=-363/2553, 11-13=-479/3009 **BOT CHORD** WEBS

3-18=-318/197, 5-18=-102/662, 5-16=-695/280, 6-16=-122/786, 7-15=-157/798,

8-15=-696/280, 8-13=-102/662, 10-13=-318/197

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 19-0-0, Exterior(2E) 19-0-0 to 24-8-0, Exterior(2R) 24-8-0 to 30-10-6, Interior(1) 30-10-6 to 45-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=372, 11=372.

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Philip J. O'Regan PE No.58126 MITek Iuc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfleld, MO 63017 Date:

February 7,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. WARNING: Verify ossign parameters and rectal roll es of the National Parameters and rectal roll es of the National Parameters and rectal roll established on the National Parameters and rectal building component, not a truss system. Before use, the building designer must verify the applicability of design parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly into properly into the overall building designer must be used in the overall building designer must be used in the overall building designer must be used only used to the overall building component states and the overall building designer must be used only used to the overall building designer must be used only used to the overall building designer must be used only used to the overall building designer must be used only used to the overall building designer must be used only used to the overall building designer must be used on the overall building designer must be used only used to the overall building designer must be used on the overall building designer must be used only used on the overall building designer must be used only used on the overall building designer must be used on the overall building designer must be used only used on the overall building designer must be used on the overall build

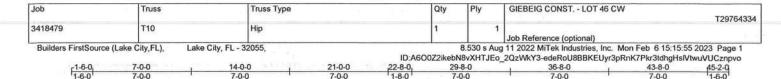


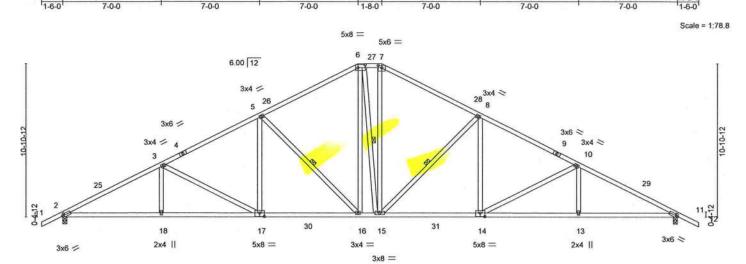
Structural wood sheathing directly applied or 2-7-3 oc purlins.

5-16, 7-16, 8-15

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt





	1	7-0-0 7-0-0	14-0-0 7-0-0	-	21-0-0 7-0-0	22-8-0 ₁	29-8-0 7-0-0		36-8-0 7-0-0	+ 43-8-0 7-0-0		
Plate Offse	ets (X,Y)-		THE RESERVE AND ADDRESS OF THE PARTY OF THE	0-2-0], [11:0-					7-0-0	7-0-0		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.31 16-1	7 >999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.54 16-1	7 >967	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.19 1	1 n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	k-MS					Weight: 270 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 2-8-13 oc purlins. Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt 5-16, 6-15, 8-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8

Max Horz 2=-168(LC 13)

Max Uplift 2=-369(LC 12), 11=-369(LC 13) Max Grav 2=1840(LC 2), 11=1840(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3395/624, 3-5=-2815/536, 5-6=-2147/488, 6-7=-1864/473, 7-8=-2151/488,

8-10=-2814/536, 10-11=-3396/625

BOT CHORD 2-18=-631/2982, 17-18=-631/2982, 16-17=-431/2460, 15-16=-218/1859, 14-15=-312/2458,

13-14=-464/2983, 11-13=-464/2983

3-18=0/273, 3-17=-594/225, 5-17=-58/574, 5-16=-861/303, 6-16=-179/732,

6-15=-212/256, 7-15=-166/749, 8-15=-853/302, 8-14=-58/568, 10-14=-597/226,

10-13=0/274

NOTES-

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 21-0-0, Exterior(2E) 21-0-0 to 22-8-0, Exterior(2R) 22-8-0 to 28-10-2, Interior(1) 28-10-2 to 45-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=369, 11=369.

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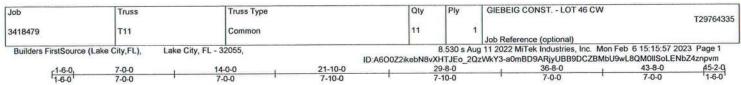
Philip J. O'Regan PE No.58126 MITck Inc. DBA MITck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 7,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





5x6 =

Scale = 1:77.3

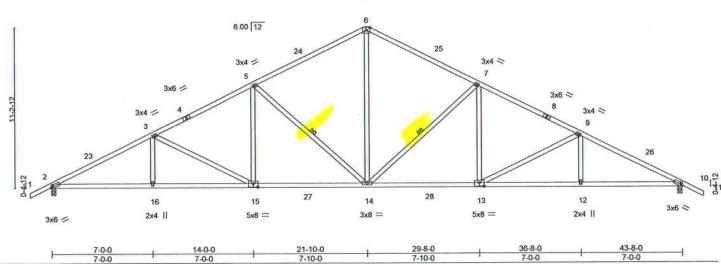


Plate Offsets (X,Y)	[2:0-1-5,0-1-8], [10:0-1-5	,0-1-8], [13:0-4	0,0-3-0], [15:0-4-0,0-3-0]		1.100				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.32 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.56 14-15	>937	180		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code FBC2020/T	YES	WB 0.69 Matrix-MS	Horz(CT)	0.19 10	n/a	n/a	Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING-TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied. Rigid ceiling directly applied or 2-2-0 oc bracing. 7-14, 5-14

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=-173(LC 13)

Max Uplift 2=-368(LC 12), 10=-368(LC 13) Max Grav 2=1845(LC 2), 10=1845(LC 2)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-3404/620, 3-5=-2828/548, 5-6=-2117/492, 6-7=-2117/492, 7-9=-2828/548, 9-10=-3404/621

BOT CHORD

2-16=-632/2989, 15-16=-632/2989, 14-15=-437/2473, 13-14=-315/2473, 12-13=-460/2989,

10-12=-460/2989

WEBS

6-14=-246/1484, 7-14=-887/319, 7-13=-54/572, 9-13=-586/221, 9-12=0/272,

5-14=-887/319, 5-15=-54/572, 3-15=-586/220, 3-16=0/272

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-10-6, Interior(1) 2-10-6 to 21-10-0, Exterior(2R) 21-10-0 to 26-2-6, Interior(1) 26-2-6 to 45-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=368, 10=368,

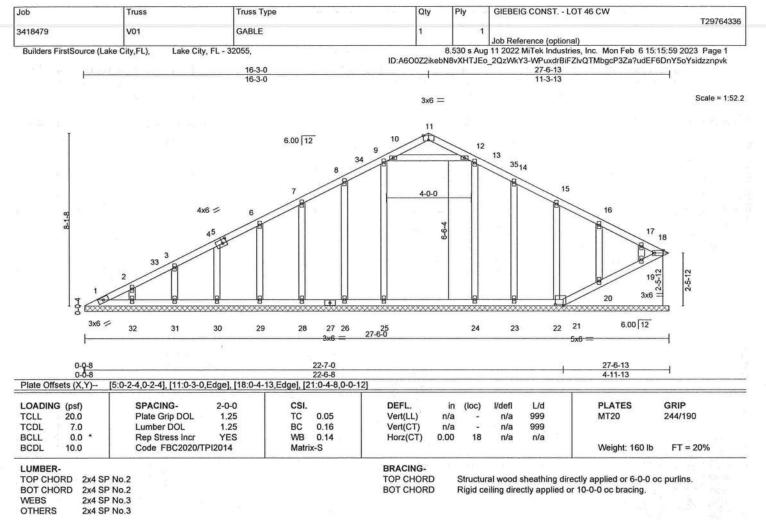
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Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 7,2023

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REACTIONS. All bearings 27-6-0.

(lb) - Max Horz 1=162(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 18, 21, 25, 24, 26, 28, 29, 30, 31, 32, 23, 22, 20, 19 Max Grav All reactions 250 lb or less at joint(s) 18, 1, 21, 26, 28, 29, 30, 31, 32, 23, 22, 20, 19 except

25=311(LC 19), 24=305(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-7 to 3-7-7, Interior(1) 3-7-7 to 16-3-0, Exterior(2R) 16-3-0 to 19-3-0, Interior(1) 19-3-0 to 27-2-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 21, 25, 24, 26, 28, 29, 30, 31, 32, 23, 22, 20, 19.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 20, 19.

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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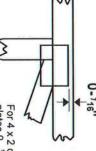


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- "16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



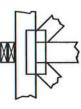
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

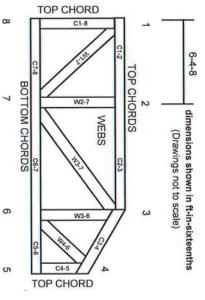
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. DSB-89: Design Standard for Bracing.

DSB-89: BCSI:

Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

/stem

General Safety Notes

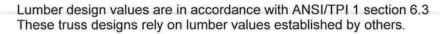
Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for
- use with fire retardant, preservative treated, or green lumber.

 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

camber for dead load deflection.

- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.





Site Information:

RE: 3392744 - JUDSON JACKSON - MCKENDREE RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd

Customer Info: JUDSON JACKSON CONST. Project Name: McKendree Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: 10757 NE 181st Place, N/A

City: Union Cty

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 41 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1 2 3	T29700120 T29700121	CJ01 CJ03	1/31/23 1/31/23	23 24	T29700142 T29700143	T11 T12	1/31/23 1/31/23
4	T29700122 T29700123	CJ03A CJ05 CJ05A	1/31/23	25 26	T29700144 T29700145	T13 T14 T15	1/31/23
4 5 6 7	T29700124 T29700125 T29700126	EJ01 EJ02	1/31/23 1/31/23 1/31/23	27 28 29	T29700146 T29700147 T29700148	T16 T17	1/31/23 1/31/23 1/31/23
8	T29700127 T29700127 T29700128	EJ03 EJ04	1/31/23	30 31	T29700149 T29700150	T18 T19	1/31/23 1/31/23 1/31/23
10 11	T29700129 T29700130	HJ10 HJ10A	1/31/23	32 33	T29700151 T29700152	T20 T21	1/31/23
12 13	T29700131 T29700132	T01 T01G	1/31/23 1/31/23	34 35	T29700153 T29700154	T22 T23	1/31/23
14 15	T29700133 T29700134	T02 T02G	1/31/23 1/31/23	36 37	T29700155 T29700156	T24 T24G	1/31/23 1/31/23
16 17	T29700135 T29700136	T04 T05	1/31/23 1/31/23	38 39	T29700157 T29700158	T25 T26	1/31/23 1/31/23
18 19	T29700137 T29700138	T06 T07	1/31/23 1/31/23	40 41	T29700159 T29700160	T26G T27	1/31/23 1/31/23
20 21	T29700139 T29700140	T08 T09	1/31/23 1/31/23				
22	T29700141	T10	1/31/23				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

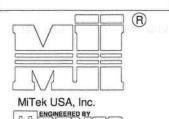
January 31,2023

		*	,

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

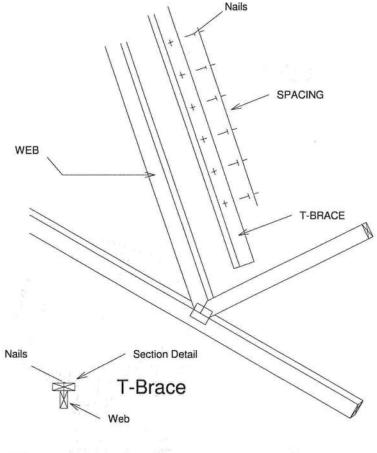
A MITEX ATTRIBUTE	Nailing Pattern	10 7
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

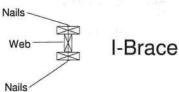
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

		e Size -Ply Truss
	Specified Rows of La	Continuous ateral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

		e Size -Ply Truss
	Specified Rows of La	Continuous iteral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.







Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

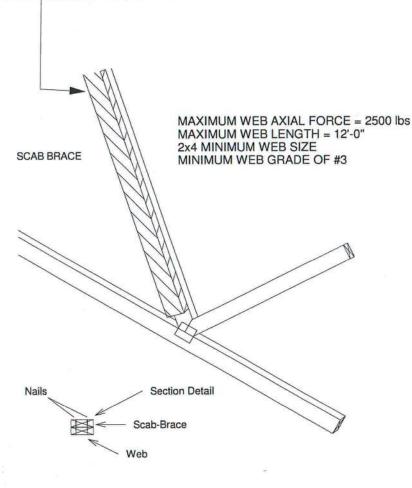
Page 1 of 1



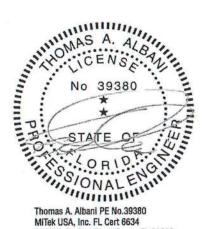
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

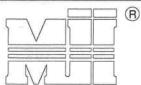


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STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

1 1/2"

- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING
- REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

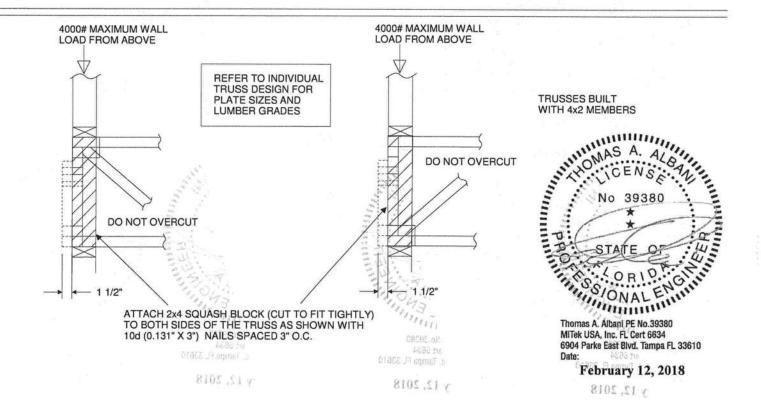
 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.

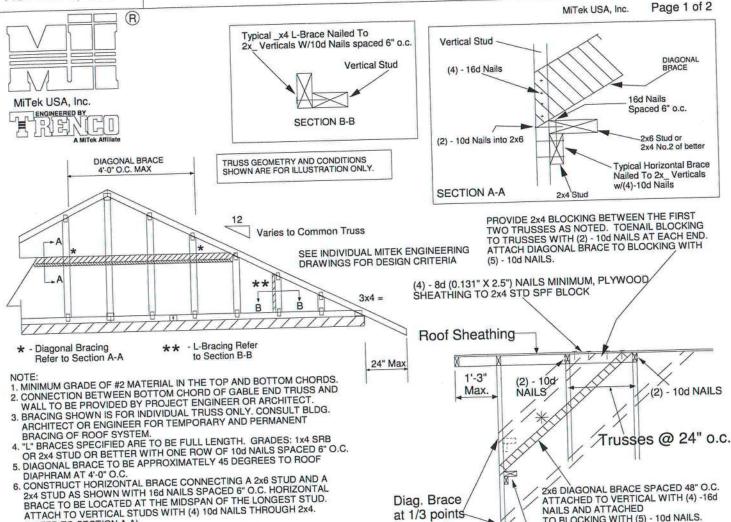
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

500# MAXIMUM WALL 500# MAXIMUM WALL LOAD FROM ABOVE LOAD FROM ABOVE TRUSSES BUILT WITH 4x2 MEMBERS REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND **LUMBER GRADES** DO NOT OVERCUT DO NOT OVERCUT



Standard Gable End Detail

MII-GE130-D-SP



at 1/3 points

End Wall

if needed

(REFER TO SECTION A-A)

(REFER TO SECTION A-A)

(REFER TO SECTION A-B)

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE TYPE TRUSSES.

06-01-13 BY SPIB/ALSC. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Stud	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
	Maximum Stud Length							
2" O C	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7			
			5-0-2	6-10-8	10-3-13			
			4-1-1	5-7-6	8-5-1			
-		Prace 2" O.C. 3-9-13 6" O.C. 3-5-4	Brace L-Brace Maximus 2" O.C. 3-9-13 4-1-1 5" O.C. 3-5-4 3-6-8	### Brace L-Brace L-Brace L-Brace Maximum Stud Le 2" O.C. 3-9-13 4-1-1 5-9-6 5" O.C. 3-5-4 3-6-8 5-0-2	Stud pacing Frace L-Brace BRACE			

* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



NAILS AND ATTACHED

TO BLOCKING WITH (5) - 10d NAILS.

HORIZONTAL BRACE

(SEE SECTION A-A)

MITER USA, Inc. FL C 6904 Parke East Blv Date:

Februar



Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

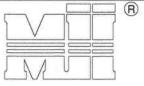
ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

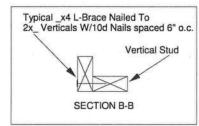
MiTek USA, Inc.



DIAGONAL BRACE

4'-0" O.C. MAX

MiTek USA, Inc. ENGINEERED BY 引制制



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss

> SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

> > 24" Max

Diag. Brace

at 1/3 points

End Wall

if needed

3x4 =

Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD

- 10d

NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max.

- Diagonal Bracing Refer to Section A-A

- L-Bracing Refer to Section B-B

NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.
- ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
- BRACING OF ROOF SYSTEM.

 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB
 OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade			Maximu	m Stud Lei	BRACE		
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6	
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1	
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

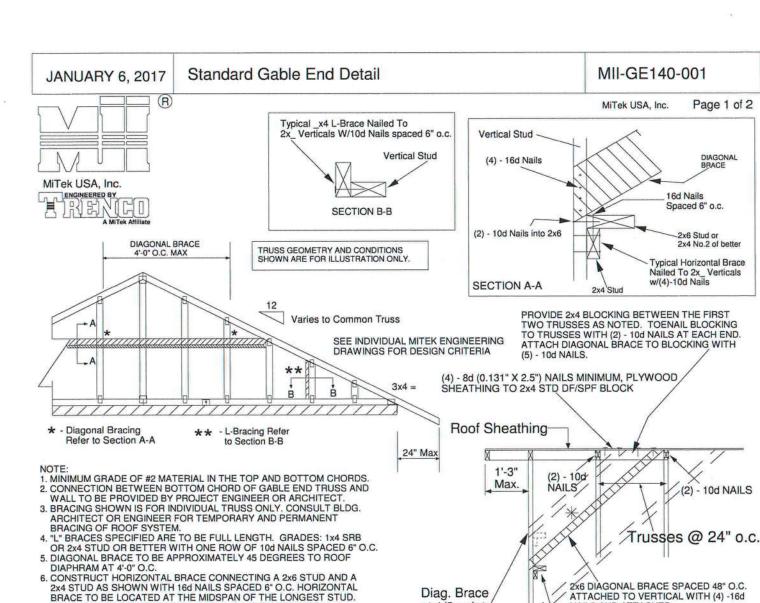
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH

DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



Diag. Brace

at 1/3 points

End Wall

if needed

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			Maximu	m Stud Le	ngth	
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11

2-9-8

3-11-7

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4.

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 **DURATION OF LOAD INCREASE: 1.60**

2x4 DF/SPF Std/Stud 24" O.C. 2-8-9

(REFER TO SECTION A-A)

10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

TYPE TRUSSES.

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

5-5-2

8-1-12



2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

January 19, 2018

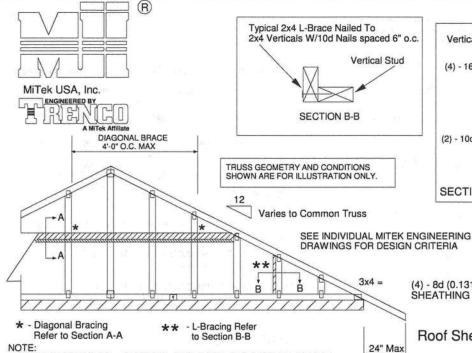


Standard Gable End Detail

MII-GE170-D-SP



Page 1 of 2



Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD, SHEATHING TO 2x4 STD SPF BLOCK

- 10d

NAILS

Roof Sheathing

1'-0"

Max.

NOTE

. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STI ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4 (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND

NAILS DESIGNATED 16d ARE (0.131" X 3.5")

			1 1 N
'UD. 4.	at 1/	. Bra 3 poi eded	
	I	End \	Wall

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(2) - 10d NAILS

Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade		1.	Maximum St	6-11-1 6-9-8 5-6-8	
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH **DURATION OF LOAD INCREASE: 1.60**

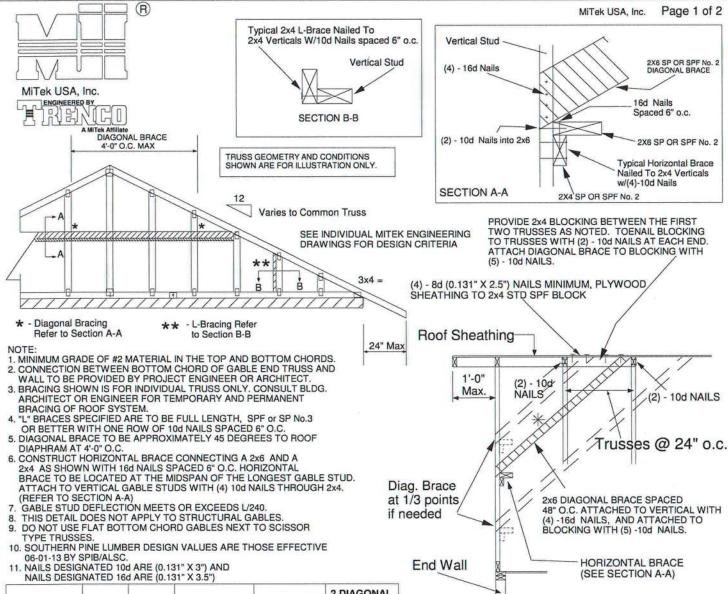
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Standard Gable End Detail

MII-GE180-D-SP



Minimum Stud Size	Size Spacing Brace L-Brace		DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
Species and Grade			Maximum St		
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH

DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

MiTek USA, Inc. Page 1 of 1

R

MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60**

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED

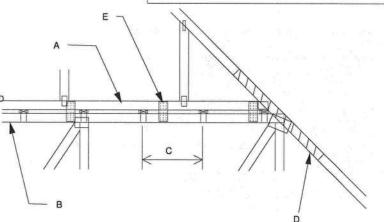
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) (0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X __X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED—
ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND: DIRECTIONS AND:

DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

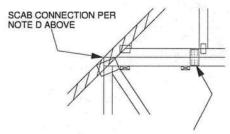
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH
MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT
72° O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS
FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE.
(MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

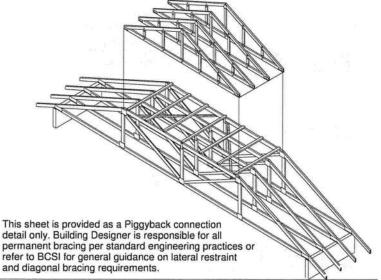


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

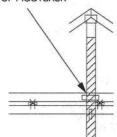
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-ON PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP

AS SHOWN IN DETAIL.

ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)

THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.

FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10



(R)

MiTek USA, Inc.

ENGINEERED BY 小别

MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 **DURATION OF LOAD INCREASE: 1.60**

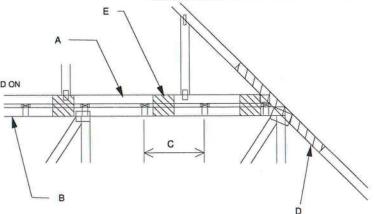
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

E

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X __X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
DIRECTIONS AND: DIRECTIONS AND: 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

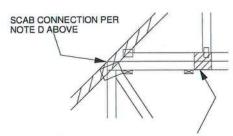
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

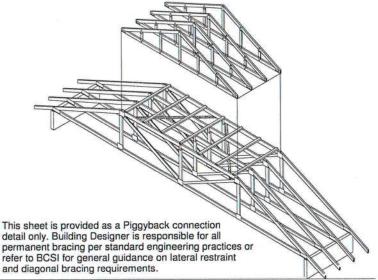


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

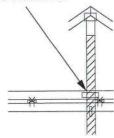
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP

AS SHOWN IN DETAIL.

ATTACH 2 x x 4'.0" SCAB TO EACH FACE OF

TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS

SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 2X4)
THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS. FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH

THE PIGGYBACK AND THE BASE TRUSS DESIGN.



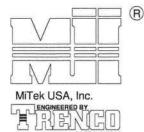
Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MiTek USA, Inc. Page 1 of 1

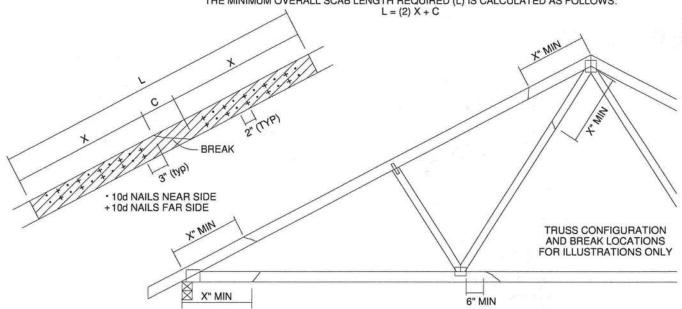


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK * X INCHES		MAXIMUM FORCE (Ibs) 15% LOAD DURATION								
		7.7	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

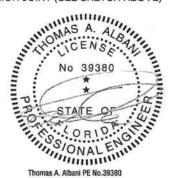
DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

- 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

 ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR

 AND HELD IN PLACE DURING APPLICATION OF REPAIR.
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF MALES SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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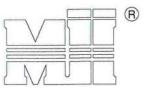
January 19, 2018

LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc.

ENGINEERED BY E RISI

NOTES:

- 1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

ILLUSTRATION PURPOSES ONLY

NEAR SIDE

NEAR SIDE

VIEWS SHOWN ARE FOR

SIDE VIEW

(2x3) 2 NAILS

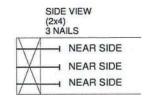
OE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) DIAM. SP DF HF SPF SPF-S 69.9 59.7 .131 88.0 80.6 68.4 LONG 135 85.6 74.2 72.6 63.4 84.5 108.8 99.6 86.4 73.8 3.5 162 LONG .128 74.2 57.6 50.3 67.9 58.9 75.9 69.5 60.3 59.0 51.1 131 3.25" .148 81.4 74.5 64.6 63.2 52.5

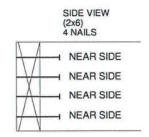
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

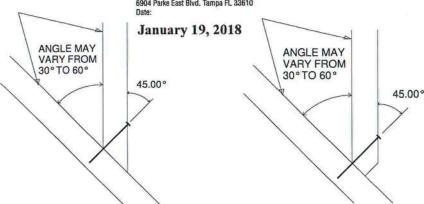
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

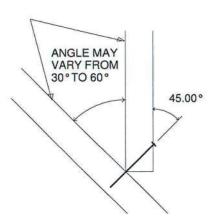






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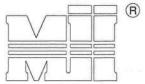


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

Page 1 of 1



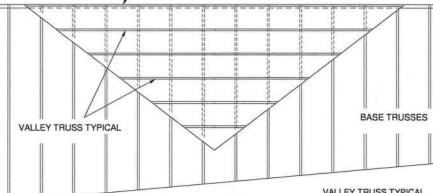
MiTek USA, Inc.

ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

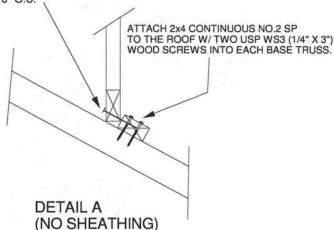
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING **EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



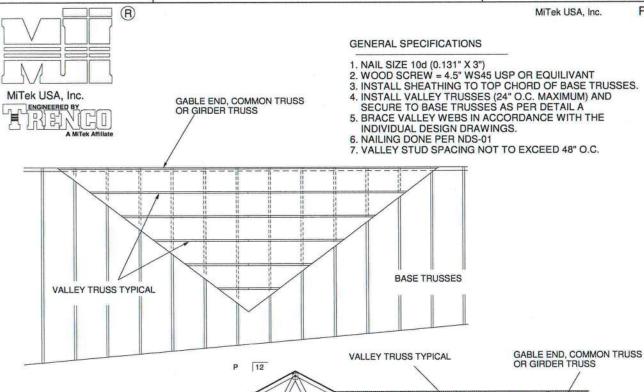
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January 19, 2018

TRUSSED VALLEY SET DETAIL

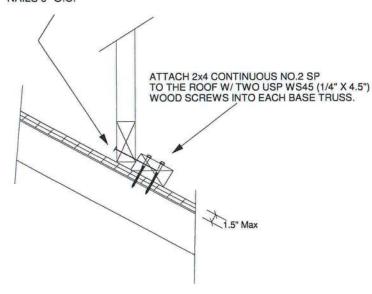
MII-VALLEY HIGH WIND2

Page 1 of 1



SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

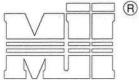
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Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

MiTek USA, Inc.

Page 1 of 1



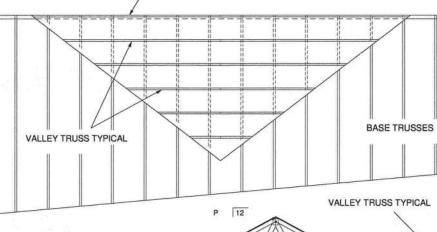
MiTek USA, Inc.

ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

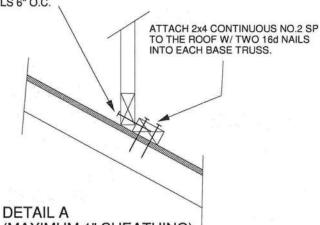
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 16d (0.131" X 3.5")
 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



GABLE END, COMMON TRUSS OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C.



(MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE : 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF

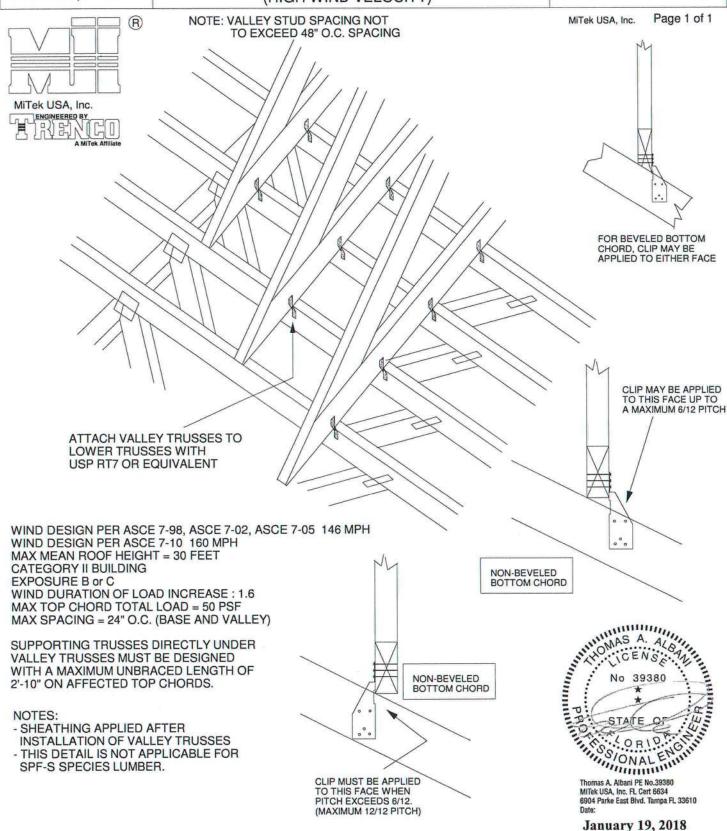
ON THE TRUSSES



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TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY





Standard Gable End Detail

MII-GE146-001

MiTek USA, Inc.

Page 1 of 2



Typical _x4 L-Brace Nailed To Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA ** 3x4 = - Diagonal Bracing L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x_ Verticals w/(4)-10d Nails SECTION A-A 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

Roof Sheathing

24" Max

NOTE

- MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
- BRACING OF ROOF SYSTEM.

 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:
 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

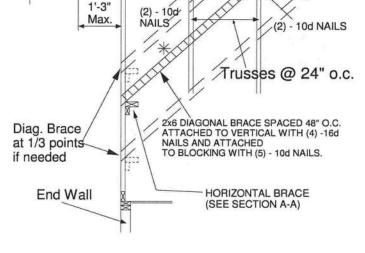
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
Species and Grade		Maxim	num Stud L	.ength	
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 **DURATION OF LOAD INCREASE: 1.60**

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.





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January 19, 2018

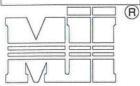
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

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ENGINEERED BY

TRUSS CRITERIA:

LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

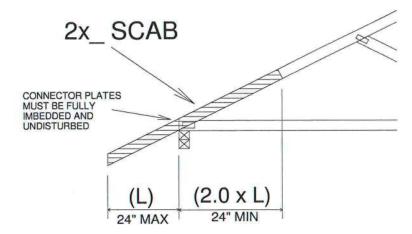
1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF

TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH

AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

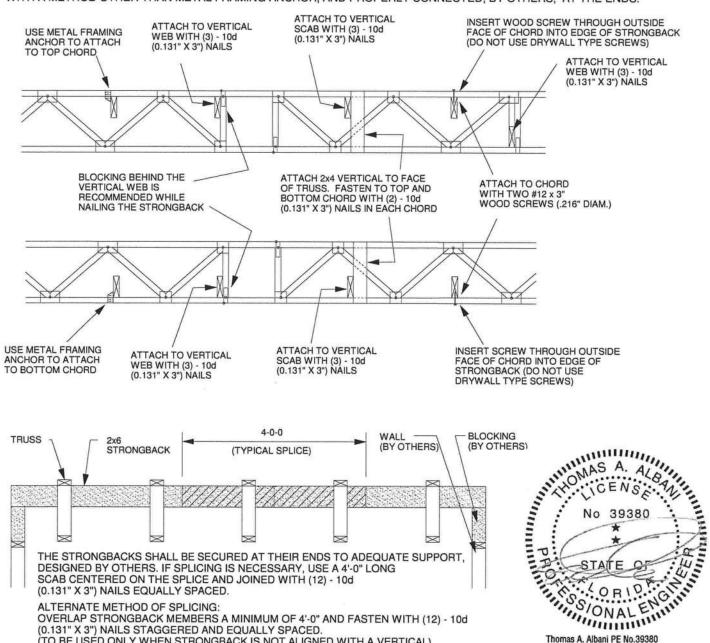
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TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING: OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED. (TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date: